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**RECOMBINANT MHC MOLECULES USEFUL FOR MANIPULATION OF  
ANTIGEN-SPECIFIC T-CELLS**

**ABSTRACT**

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Two-domain MHC polypeptides useful for manipulation of antigen-specific T-cells are disclosed. These polypeptides include MHC class II-based molecules that comprise covalently linked  $\beta 1$  and  $\alpha 1$  domains, and MHC class I-based molecules that comprise covalently linked  $\alpha 1$  and  $\alpha 2$  domains. These polypeptides may also include covalently linked antigenic determinants, toxic moieties, and/or detectable labels. The disclosed polypeptides can be used to target antigen-specific T-cells, and are useful, among other things, to detect and purify antigen-specific T-cells, to induce or activate T-cells, and to treat conditions mediated by antigen-specific T-cells.

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